

Claims

We claim:

1. An automatic headlamp assembly comprising:
 - a. a first movable reflector;
 - b. a second movable reflector; and
 - c. an adjuster bracket connecting the first reflector to the second reflector, wherein the adjuster bracket is arranged and disposed on the first and second reflectors, so that the first reflector, second reflector and adjuster bracket will move simultaneously.
2. The automatic headlamp assembly of claim 1, wherein one end of the adjuster bracket comprises a threaded cylinder.
3. The automotive headlamp assembly of claim 2, wherein the second reflector has at least one ball socket.
4. The automotive headlamp assembly of claim 3, further comprising a first ball stud that is threaded through the threaded cylinder and retained by the second reflector's at least one ball socket.
5. The automotive headlamp assembly of claim 4, wherein the first ball stud can be extended or withdrawn so that the second reflector is adjusted vertically without moving the first reflector.
6. The automotive headlamp assembly of claim 5, wherein the other end of the adjusted bracket comprises a ball socket that is attached to the first reflector.
7. The automotive headlamp assembly of claim 6, further comprising a second ball stud.
8. The automotive headlamp assembly of claim 7, wherein the second ball stud fits into and is retained by the adjuster bracket's ball socket.

9. The automotive headlamp assembly of claim 8, wherein the second ball stud can be extended or withdrawn so that the first and second reflectors simultaneously move in a vertical direction.
10. The automotive headlamp assembly of claim 9, further comprising a gear drive that interacts with the second ball stud, wherein the gear drive can cause the second ball stud to extend and withdraw.
11. A method of utilizing a single mechanism for vertically adjusting a high beam reflector and a low beam reflector in the same direction and at the same time, the method comprising the steps of:
 - a. providing a headlamp assembly having:
 - (i) a first reflector,
 - (ii) a second reflector, and
 - (iii) an adjuster bracket with a first end connected to the first reflector and a second end connected to the second reflector;
 - b. providing a first ball stud;
 - c. connecting the first ball stud to the first end of the adjuster bracket; and
 - d. extending or withdrawing the first ball stud in order to simultaneously adjust the first and second reflectors in the same direction.
12. The method of claim 11, further comprising the steps of providing a second ball stud with a threaded end and a ball head.
13. The method of claim 12, further comprising the step of connecting the threaded portion of the second ball stud to the second end of the adjuster bracket and the ball head of the second ball stud to the second reflector.

14. The method of claim 13, further comprising the step of extending or withdrawing the second ball stud in order to vertically adjust the second reflector so that its vertical axis is parallel to the vertical axis of the first reflector.
15. The method of claim 11, further comprising attaching a gear adjuster to the first ball stud.
16. The method of claim 15, wherein the step of withdrawing and extending the first ball stud further comprises operating the gear adjuster to extend or withdraw the first ball stud.
17. An automotive headlamp assembly comprising:
 - a. a first reflector;
 - b. a second reflector;
 - c. a means for adjusting the first reflector; and
 - d. a means for connecting the first reflector to the second reflector, such that any adjustment of the first reflector using the means for adjusting the first reflector will cause a corresponding adjustment in the second reflector.
18. An automotive headlamp assembly of claim 17, wherein the means for connecting the first reflector to the second reflector is an adjuster bracket.
19. An automotive headlamp assembly of claim 18, wherein the means for adjusting the first reflector is a ball stud.
20. An automotive headlamp assembly of claim 18, wherein the means for adjusting the first reflector is a gear adjuster.